Monitor OD550 during cell resuspension Pre-Filter: LAL Bioburden, RPHPLC Post-Filter: LAL Biioburden, RPHPLC, PROCESS CONTROLS >/= 2.5 g B-2036 per kg cell paste Final Volume: ~1065 - 1136 L **IEXHPLC, HIHPLC** Monitor conductivity of extract. Specific Recovery: 163-183 kg 150 mM Tris and 5 mM EDTA, Dilution of Top Phase 1:1 with USP Purified Water 5,849,535 (recombinant expression of B-25 grams ammonium (Seiz or equivalent)
2) Charged cellulose depth (Seiz or equivalent)
3) 0.2 µm absolute relinion sulfate per liter crude PROCESS DESCRIPTION (6.14 L/kg cell paste) Ire: 900-1000 Bar PEG4600 per liter stack centrifuge 8340 RM 7 LPM Continuous disk 1-2 hours with Follow procedure of U.S. Pat. No. crude lysate 24-33°C 2036, centrifugate and freeze) 125 grams mixing lysate 1) Charged delipidating depth Feed Temperature: </=15°C pH 7.2 Homogenizer Pressure: Phase Contacting Temp: Phase Contacting Time: Figure 2 a Separation Method: Inlet Feed Rate: Cell Past Mass: Buffer: Serial Filtration Conditioning Speed: Two-Phase System Make-Up Frozen GHA Cell Paste Cell Resuspension and **UNIT OPERATION** Top Phase Filtration Homogenization and Partitioning Crude Lysate Tope Phase Phase ? (Waste) Bottom

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Figure 2 b

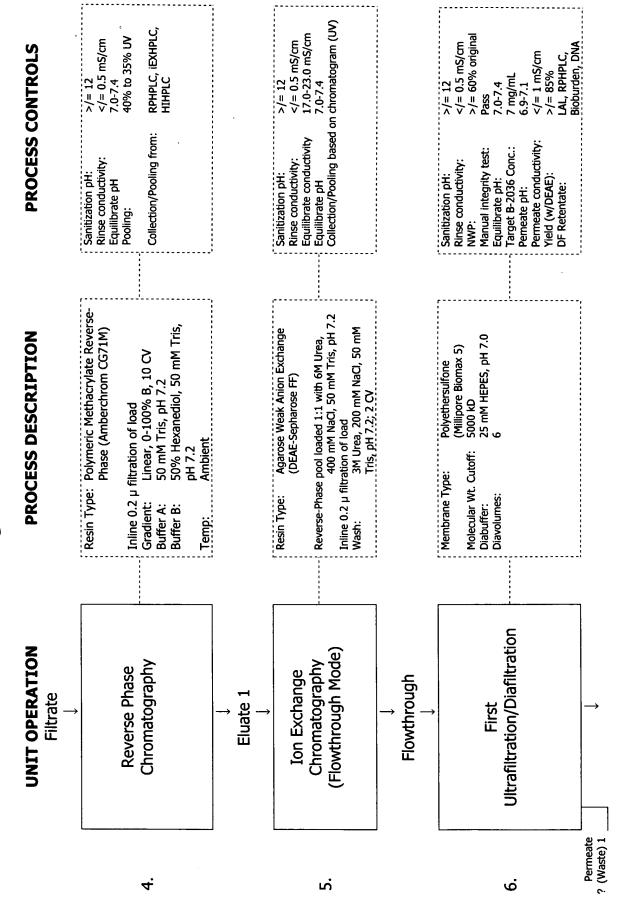


Figure 2 c

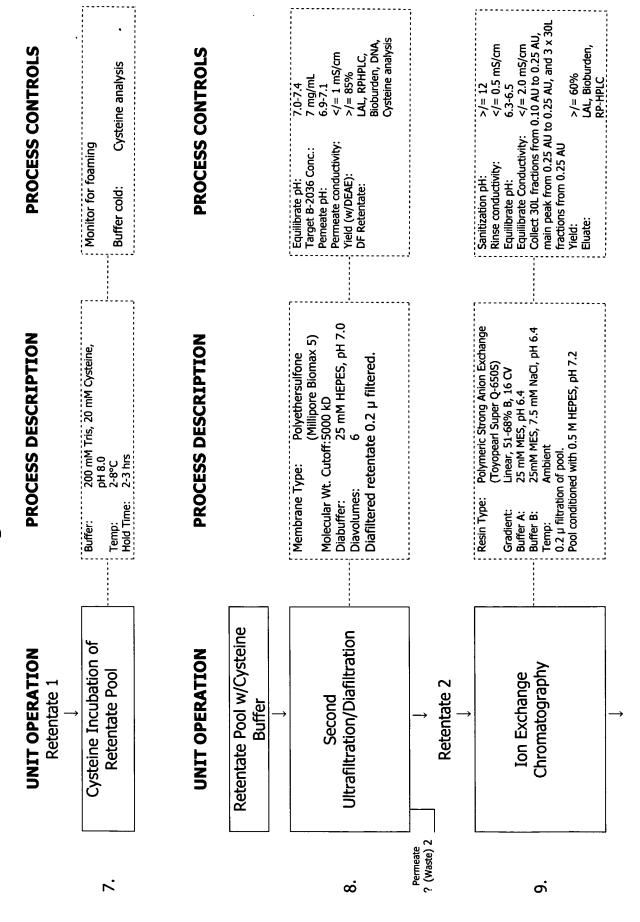


Figure 2 d

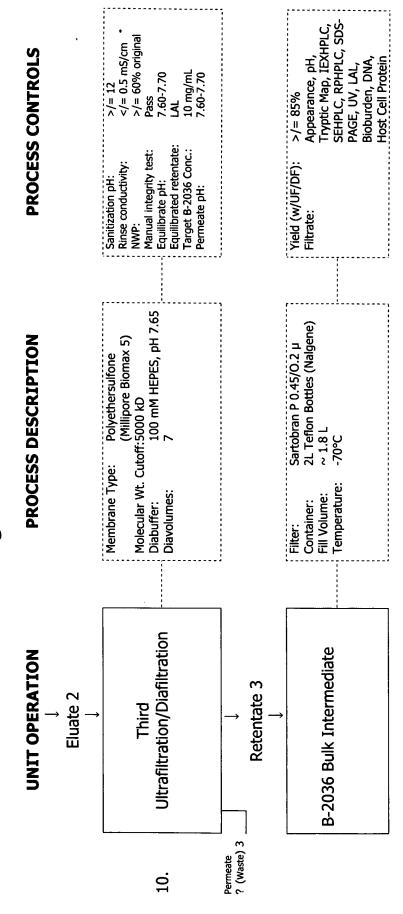


Figure 3 a

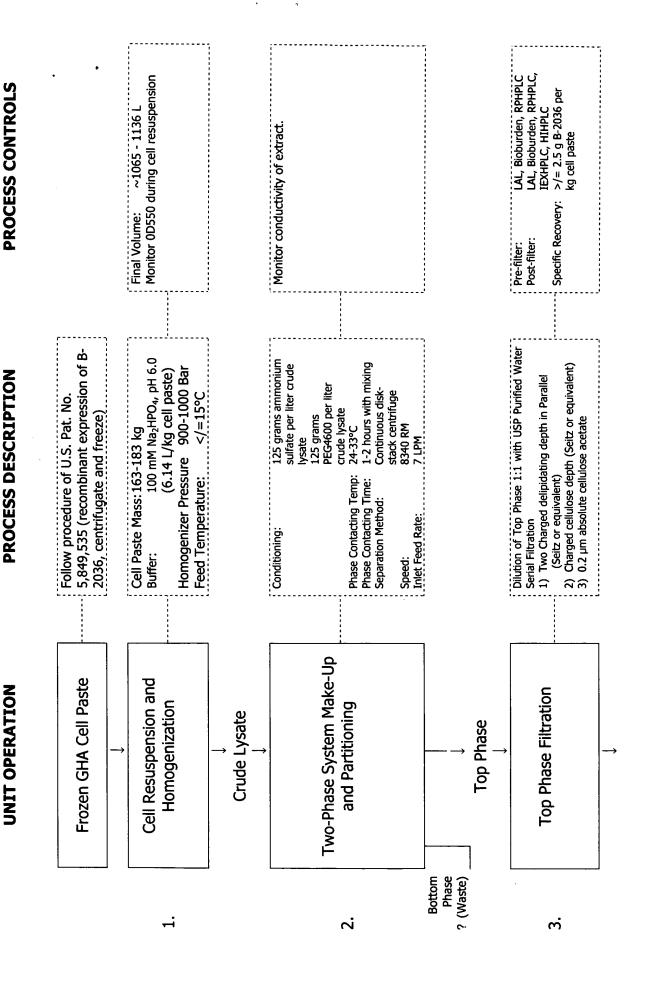


Figure 3 b

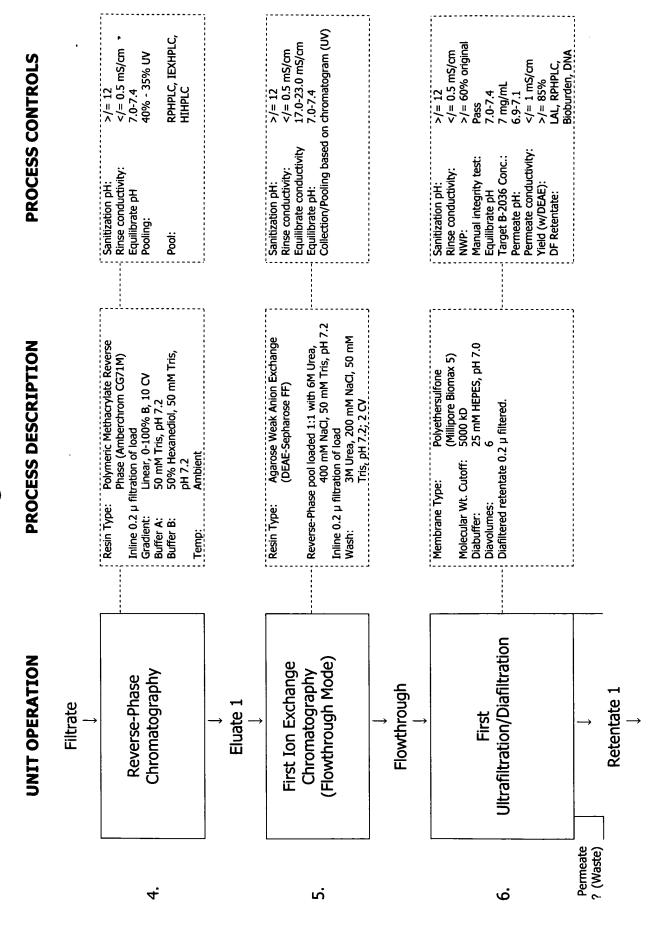


Figure 3 c

